

*Fig. 1A*

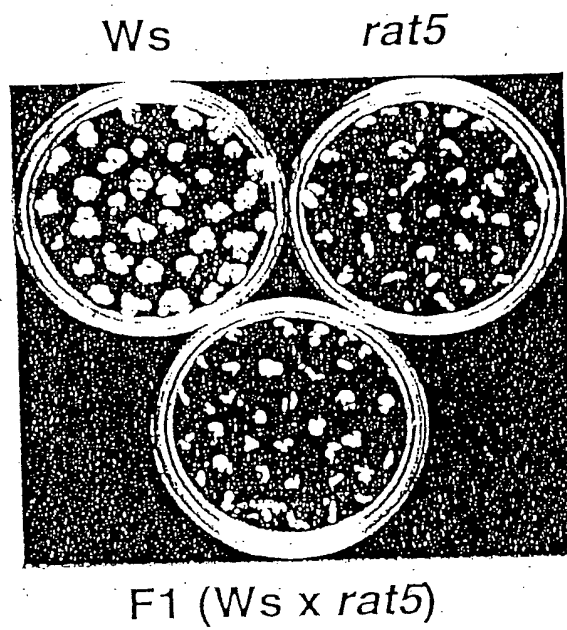


Fig. 1B

TCAAAAGGAAAGACATTAATAATTAGAAATTGAATTTTGAAACATGTTGATAGATCATGCTCTTCTTGGGTTACCCAGTT 80  
 TTGCCCTAAACCTAAACCCAAACAGGACCATCATTTTCGACACACACACATTTGACTGGTCTGCCCAATCTAGCTATGATA 160  
 TATCTTAAATTTCCGTATGACTTTGGATCCATAAATAATTGAAATAGATTGGTGAAACACAAATTAATCTTTAAACCTTCTTCT 240  
 CTTTCATGCAATGTTCTTTTCTCACTTTAAACATTTTATATAGTAGACATTTTATGTAATCCAACGTTATTTATATGATTA 320  
 GTAATTCATCAAAATTTATATAGTGATAAAATTCACAAATGGTTGTTCAATAAAATATGAACAACACAAATAGAAATTAGTA 400  
 AAAGTGACTATGTTAAATCATTTTCTTCGCTGGGTTTGGTGGCGAGTTCTAAACCCATAAGCGGCCCATTTACTTTCGT 480  
 AAACCTCAATTCGATTTGTTTCAGCGTTCCAAAGCCCATATAATATTTCAGGGCATATAAATAAATGAGGTTTATATGGA 560  
 AAATTTGGAAATTTCCCTCGTCCAGAAAGAAACCAACAAACCTGCAAAAGTTCAAGCGGTGGGAGAAACCTTCAGATC 640  
 GTAGCCATTTCATTAATTAATCAACGGTTTAAACCTCTTCGATCCGCGTACTCTATTCCTTATGGTCAAAATAACTTAA 720  
 TCCTCCACATATATAACAAATCAGATTTCTCTCTGTTAATTTCTGTCAGAAATAAATTCGATTTTTCGGCTCTTTG 800  
 TGGGTTGTTGTTGAAATGGCTGGTGGTGGAAACCTCTTGGATCCGGTGGGGCGAAGAAAGCTACATCTCCTGGAGTA 880  
 GCAAAGCCGGTCTTCAATTCCCGGTGGGTGGTATCGCTCGTTCTTAAAGCCGGTAAATAACGCCGAAACGTTGTTGGTGCC 960  
 GGTGCTCCGGTTTATCTCGCCGCCCGTTCTCGAAATATTGGCCGCCGAGGTAAATATACATCGTCTTTCTCTCTTTCCCA 1040  
 TTCCGTTTCCGATCTTATTCGTCTGACTCTGTTTTCGCTGATCGATTACGAATCTAGGGTTCTTACATTTTCCGAATTT 1120  
 GACATGCAAAATTTGAATTAGATTTCGTGTTTGAATTTGAATTTGTTGTTAGTTCTGTAATTGACCTAATTTTGGGTTTGTCT 1200  
 GATTGGTTGATGGTAATCGAGATCATATGAATCGTTTGTAGTTTCTCGCAAGATTCTAAATTTTTCATTTTCAATTATGGTAAC 1280  
 CAATTTGATTTGATTTGTTAAAGTTCTCAAAATTTGGAAAGTTTGATCATGAATTTGTGTTTTTGAATTTTGTTCAGGTTCT 1360  
 TGAATTAGCTGGAAACGCAGCAAGACACAAACAGACACCGTATTTGTTCTCGTCACATTCAGCTTGGGTCAGAAACG 1440  
 ATGAGGAGCTAAGCAAGCTTCTTTGGAGATGTGACGATTGCTAATGGAGGAGTGATGCCCTAACATCCACAAATCTCCTTCTC 1520  
 CCTAAGAAGGCTGGTCTTCAAAGCCTCAGGAAGATTAGGTCTTTTAAACACAAATGATATAGAACACGCTCTCTCTTTTGCA 1600  
 TTTTTCAGGATATATTGTGGTGTAAACAAATTTGACGCTTAGACCAACTTAATAACACATTTGCGGACGTTTTTAAATGTACTG 1680  
AAAT

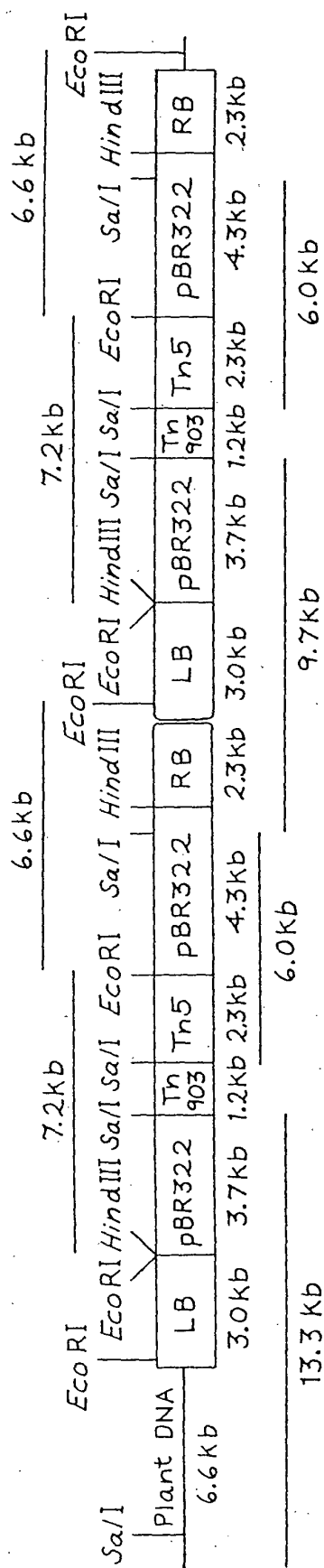
Italics → Open reading frame

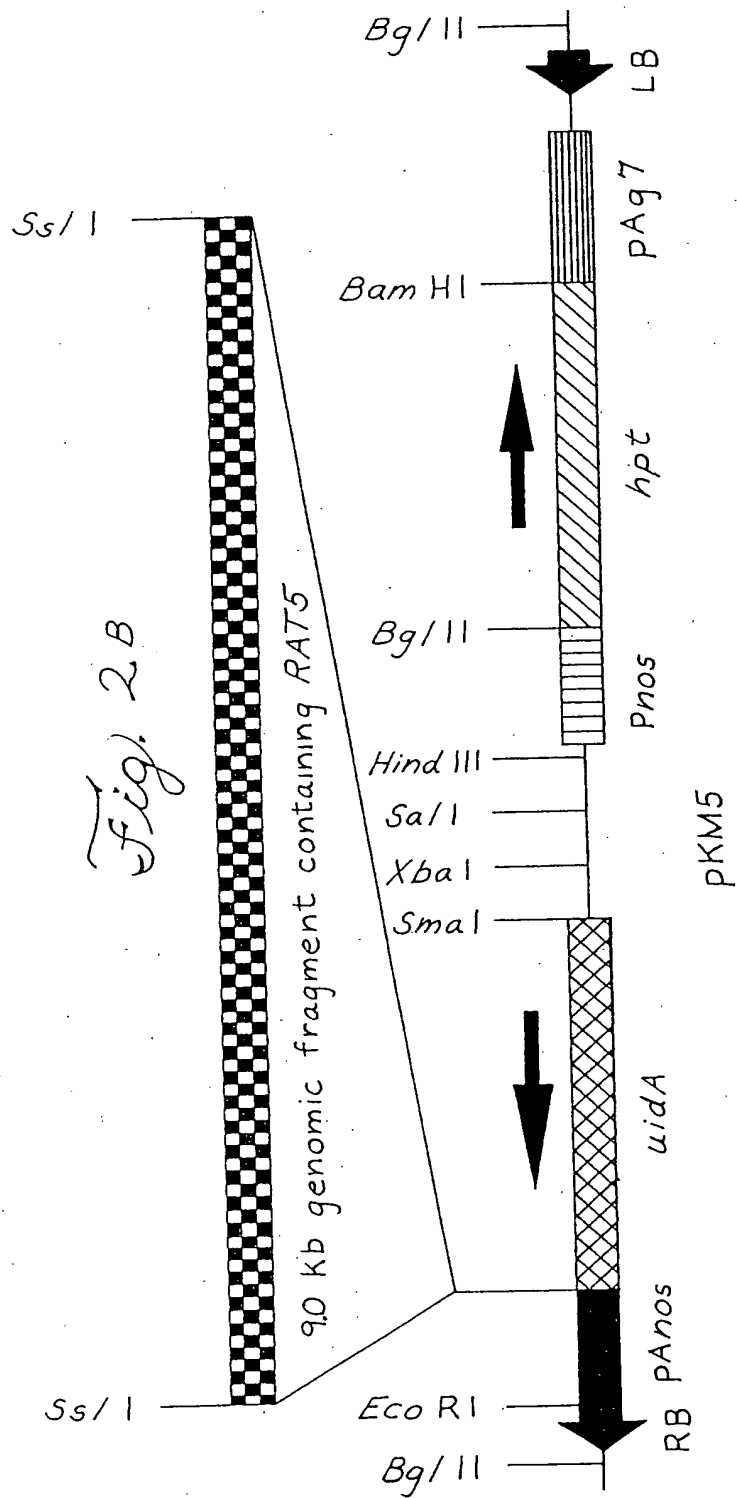
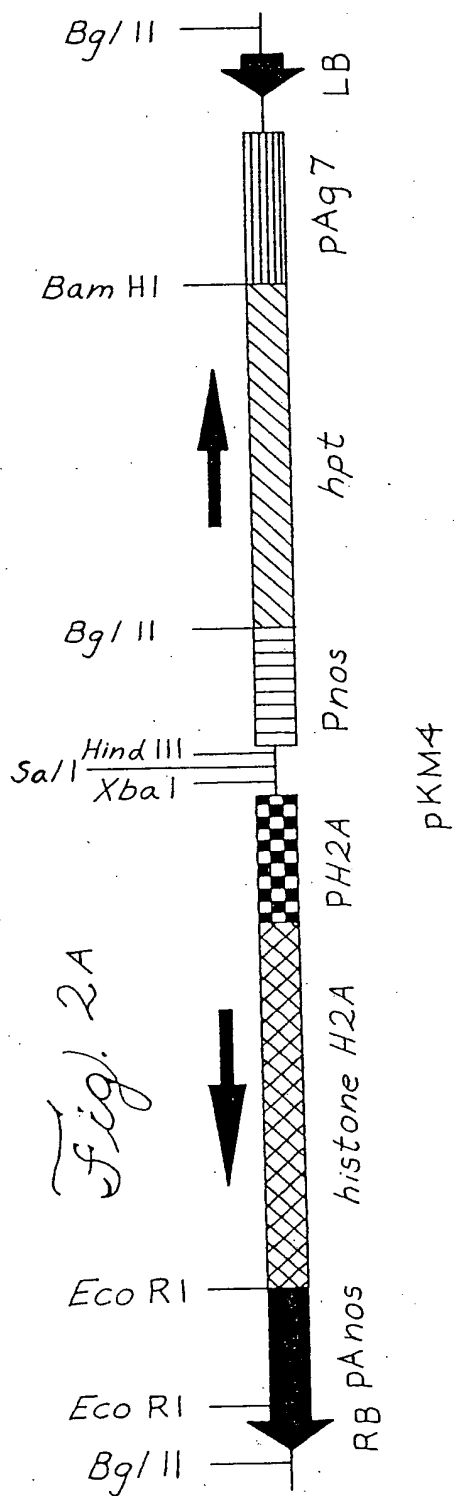
Bold → Intron

Underline → T-DNA LB sequence

T-DNA insertion site

Fig. 10

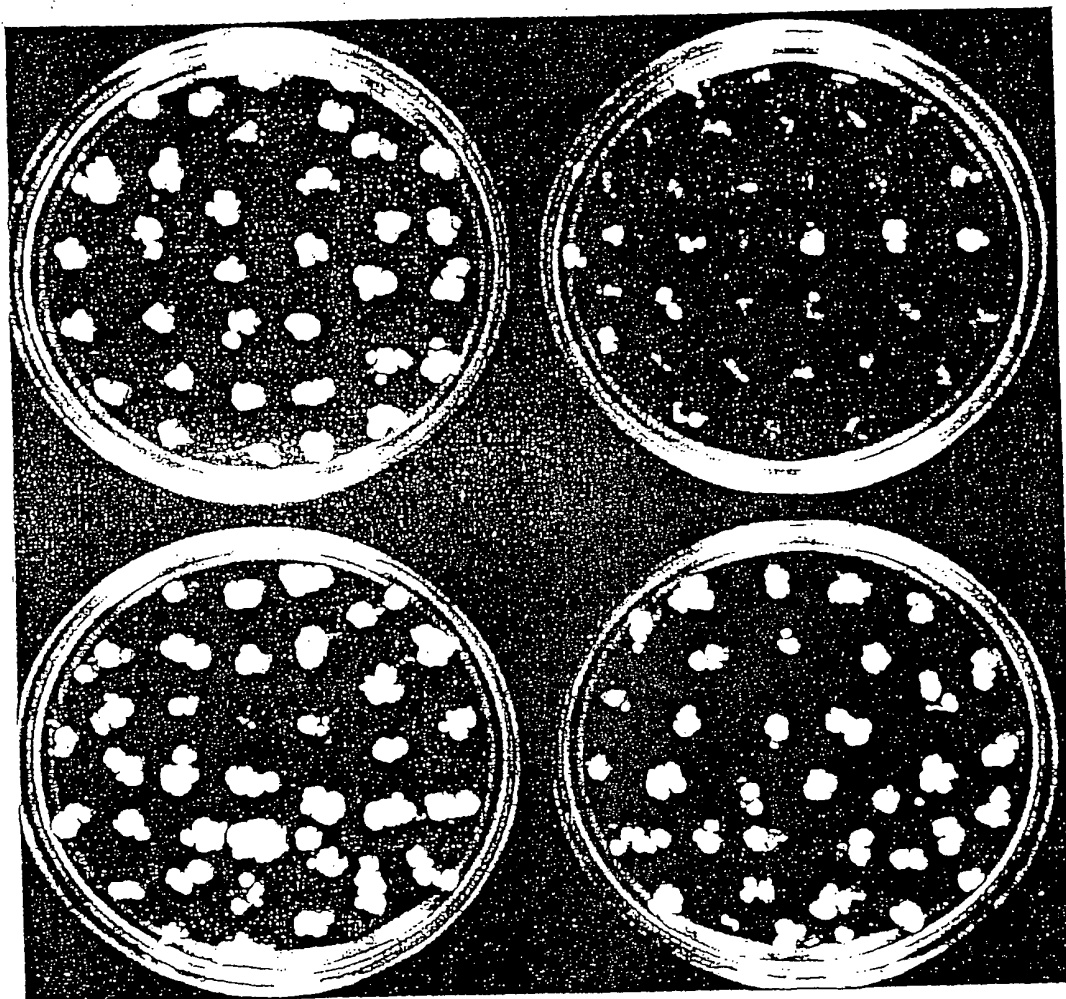




*Fig. 2c*

Ws

*rat5*

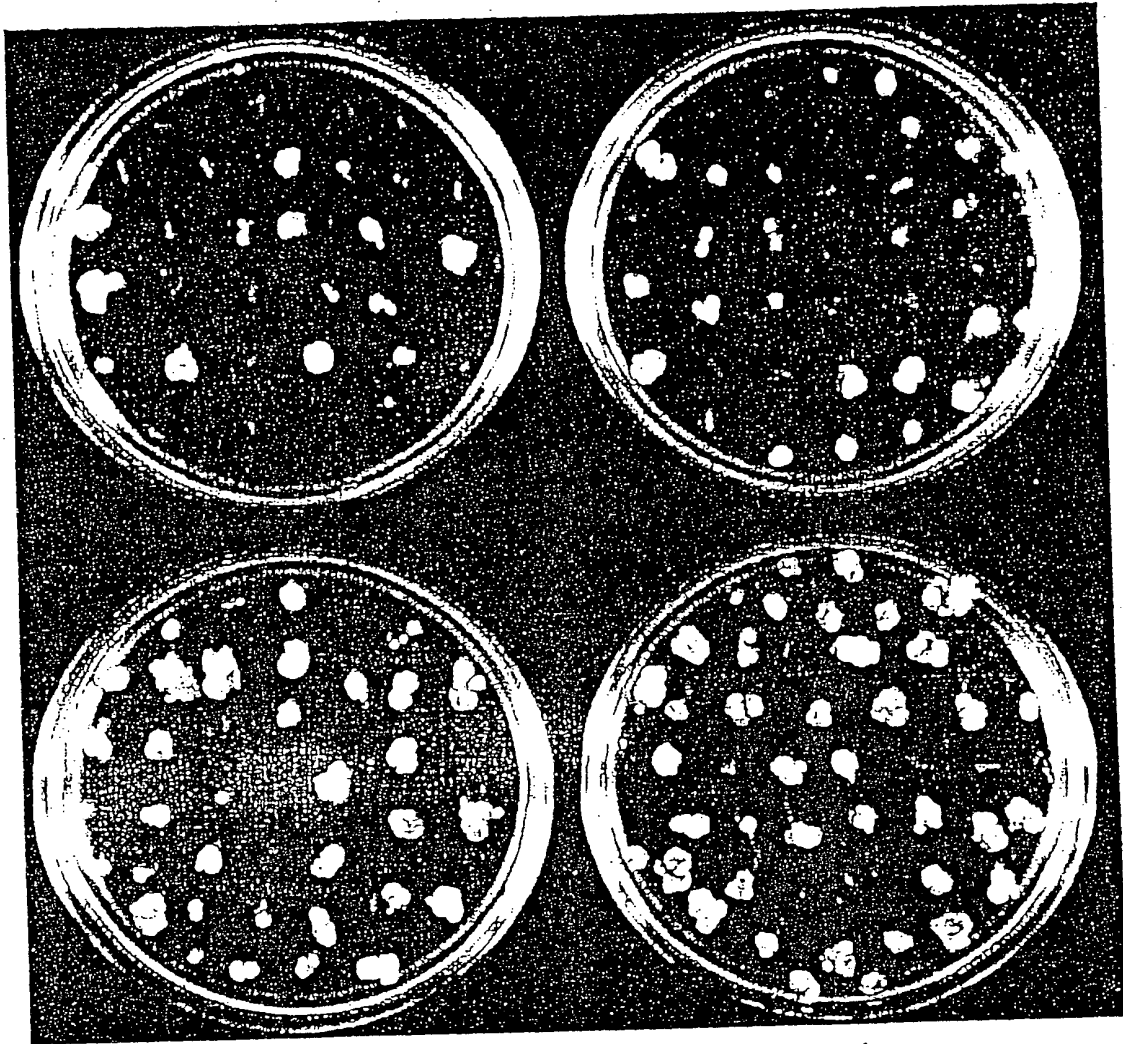


Transgenic *rat5* plants expressing  
the *RAT5* histone H2A gene

Fig. 2D

Ws

Ws



Transgenic Ws plants overexpressing  
the *RAT5* histone H2A gene

Fig. 3A

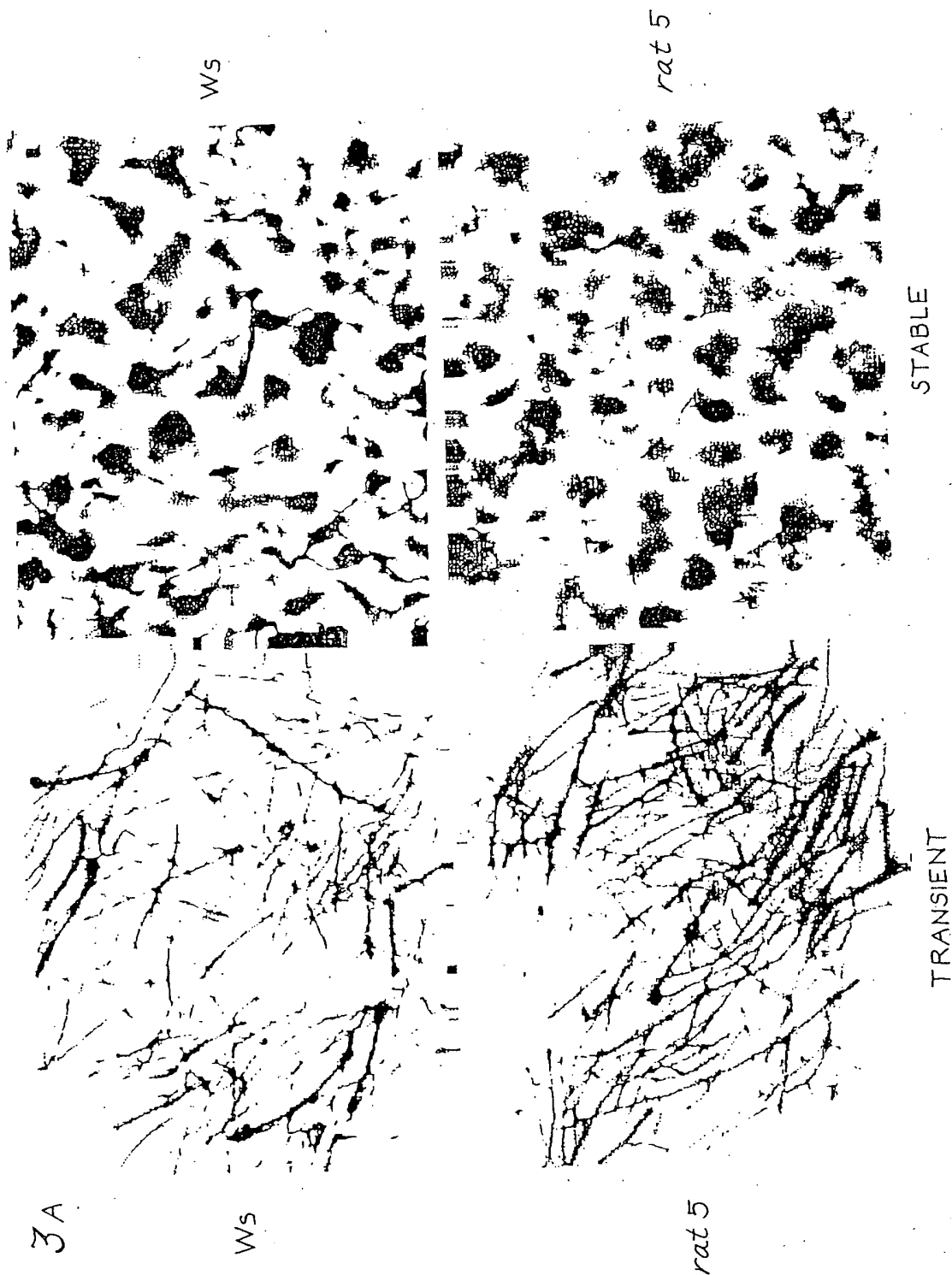
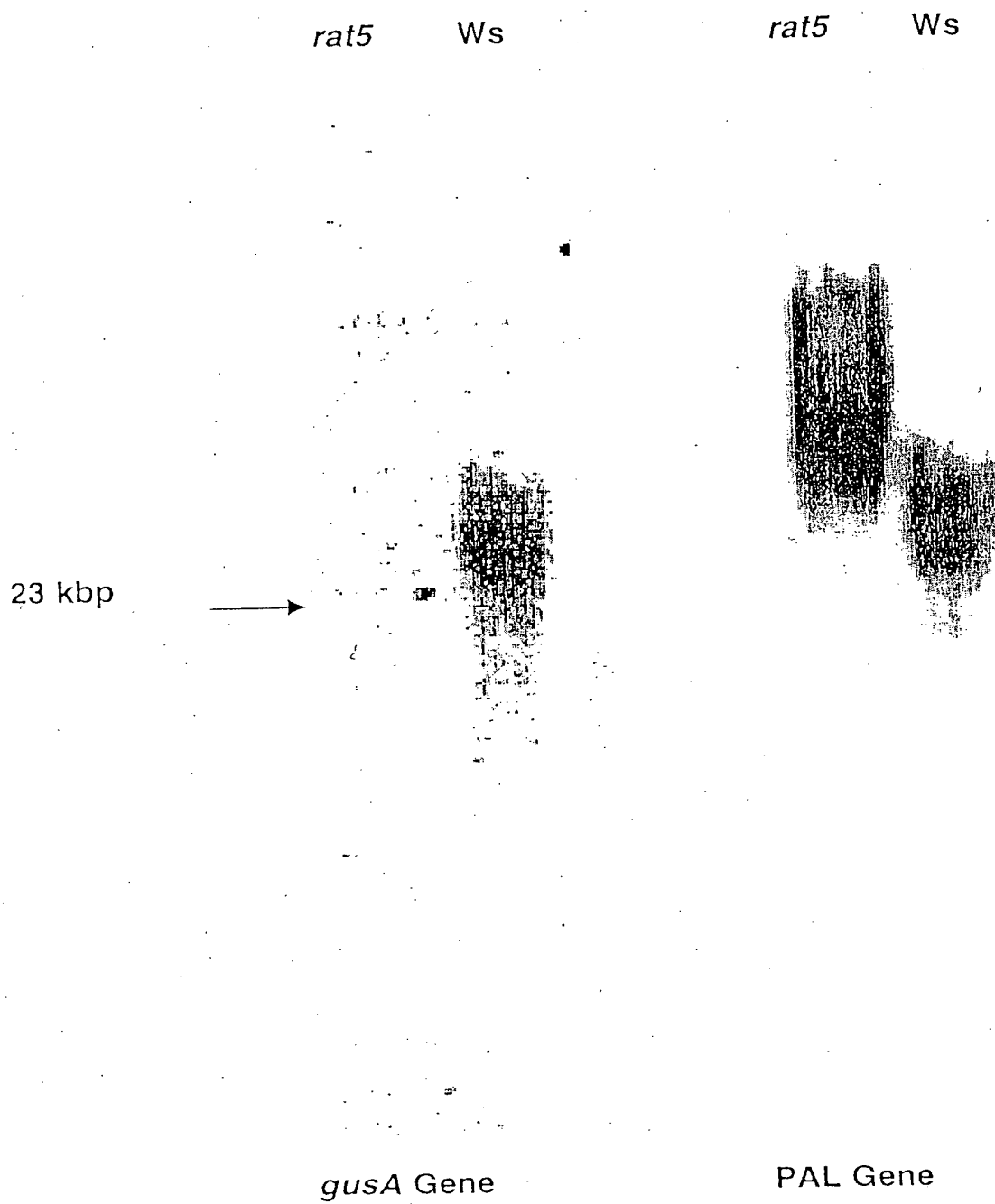
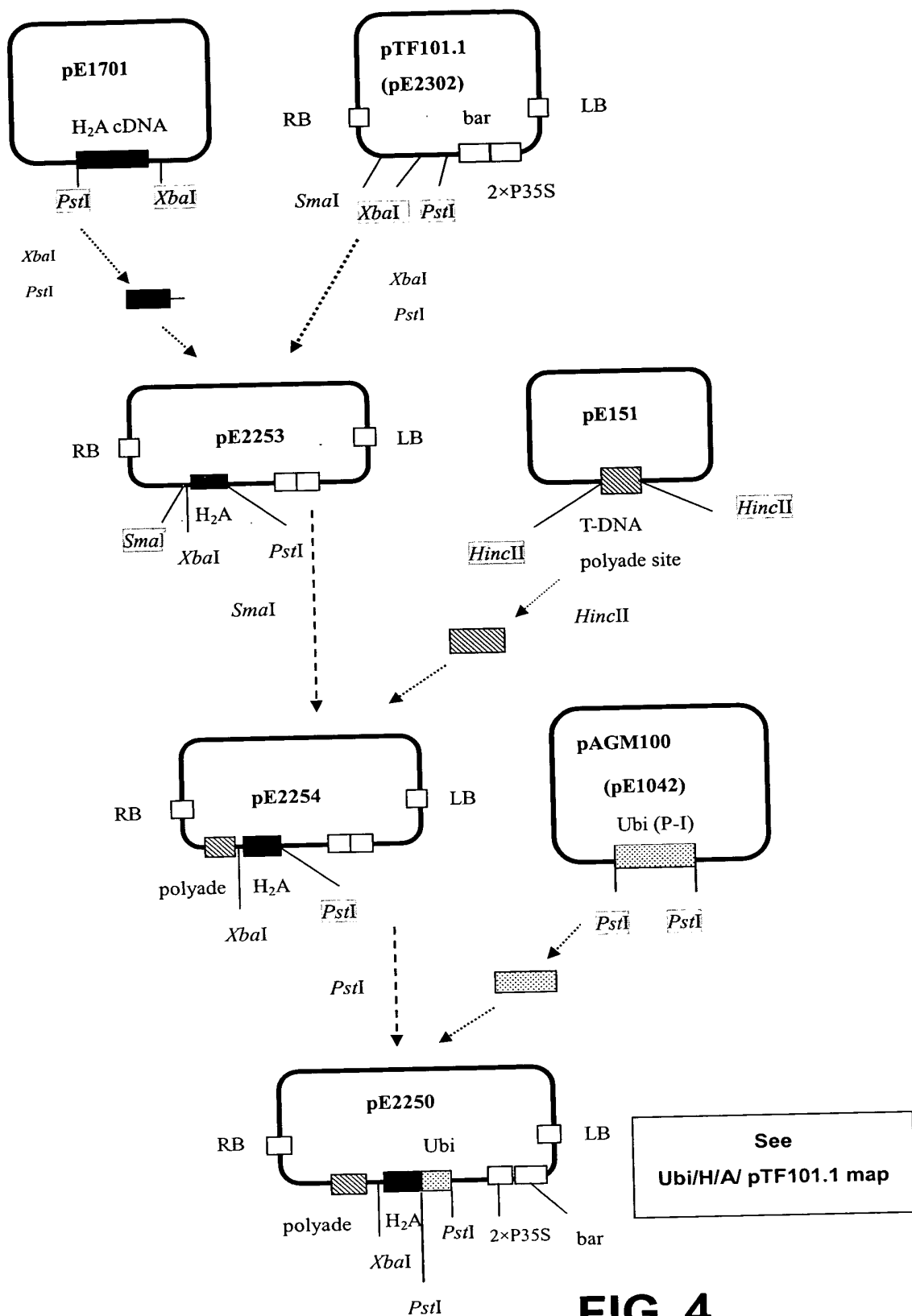


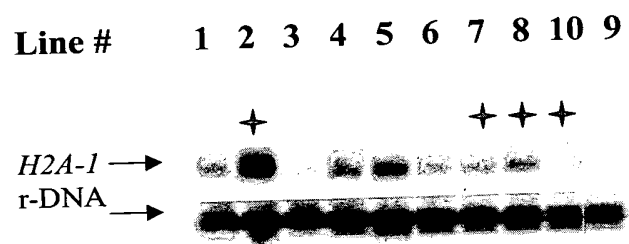
Fig. 3B







**FIG. 4**



✦ maize lines A10 (transgenic for E2250)

**FIG. 5**

### HTA1 - C

TAATTTTCGTC	AAGAAAAAAA	TTCGATTTTT	TTGCGCTCTT	TGTGGGTTGT	TGTTGTTGAA
AATGGCTGGT	CGTGGAAAAA	CTCTTGGATC	CGGTGGGGCG	AAGAAAGCTA	CATCTCGGAG
TAGCAAAGCC	GGTCTTCAAT	TCCCGGTGGG	TCGTATCGCT	CGTTTCTTAA	AAGCCGGTAA
ATACGCCGAA	CGTGTGGTG	CCGGTGCTCC	GGTTTATCTC	GCCGCCGTTC	TCGAATATTT
GGCCGCCGAG	GTTCTTGAAT	TAGCTGGAAA	CGCAGCAAGA	GACAACAAGA	AGACACGTAT
TGTTCTCTCG	CACATTCAGC	TTGCGGTCAG	AAACGATGAG	GAGCTAAGCA	AGCTTCTTGG
AGATGTGACG	ATTGCTAATG	GAGGAGTGAT	GCCTAACATC	CACAATCTCC	TTCTCCCTAA
GAAGGCTGGT	GCTTCAAAGC	CTCAGGAAGA	TTAGGTCTTT	TAACACAATG	ATATAGAACA
CGTCTCTCTT	TTGGCTTTAG	ATCTAATAAC	CTAATAACTA	GCTAGATGTT	TTCACTTTTT
GSTATCTTTGC	TTTTTTTAAT	TCCTTTAGGG	ATTTGTTTCT	TTCCGTTTCT	GTTTCGACAT
GTTGTTTCTG	TTTTTGTGAA	TATATGAAAG	TATTTTGC		

### HTA2 - C

GAGAAATTTT	TCAGTTACGC	TTCATCCTCC	TCTAAGAGAT	CTTTTTTCTA	TCTTGGGTAG
TAGAGAGAAA	TGGCGGGTCG	GGGAAAACAA	CTTGGATCTG	GTGCAGCGAA	GAAGTCTACT
TCTCGTAGTA	GCAAGGCTGG	GCTTCAATTC	CCTGTTGGTC	GTATCGCTCG	ATTTTTGAAA
GCCGGTAAGT	ACGCCGAGCG	TGTTGGTGCC	GGAGCTCCGG	TCTATCTCGC	CGCCGTTCTT
GAATACCTCG	CCGCTGAGGT	ACTTGAGCTT	GCTGGGAACG	CAGCGAGAGA	CAACAAGAAG
ACCCGTATAG	TTCCACGACA	CATTCAGCTT	GCTGTGAGGA	ATGATGAGGA	GCTAAGCAAG
TTGCTTGGAG	ATGTGACAA	TGCTAATGGA	GGAGTGATGC	CTAACATCCA	CAATCTCCTT
CTCCCCAAGA	AGGCTGGTTC	ATCTAAGCCT	ACTGAAGAAG	ATTAGGTTCA	TTACGAAGAT
AGGGAAAGCT	GGAACTGGT	TGATATCAGA	TAATGCTTAG	GATTGTTTTT	TTTTTCATTT
GCTTTTCCTC	TGCAGCAATG	GAAGCTGTGT	GGTTGTACTA	GTTGTTAAGG	TTACCTTTGT
TTCACTTTAT	GTGAATATAT	GAAGAAATTG	TTCTATTTT		

### HTA3 - C

AAATCACTCC	ACTCACAAAA	TCCTCAGCCA	TCTCTAATCA	CATTTTACAA	TCGCCTCTTC
AAATTTCCCG	ATAAACAAAA	AATGAGTTCC	GGCGCCGGCA	GTGGAACAAC	TAAAGGTGGC
AGAGGAAAGC	CAAAAGCTAC	AAAGTCCGTC	TCTCGATCTT	CTAAAGCTGG	TCTTCAATTT
CCCGTTGGAA	GAATCGCTAG	ATTCCTTAAA	GCCGGTAAAT	ACGCCGAACG	TGTTGGTGCC
GGTGCTCCCG	TTTATCTCTC	CGCCGTTCTC	GAATACCTCG	CCGCTGAGGT	ATTGGAGCTA
GCTGGAAATG	CAGCAAGAGA	TAACAAGAAG	ACACGTATCG	TACCACGGCA	CATTCAGCTT
GCAGTGAGGA	ACGATGAAGA	GCTTAGTAAA	CTTCTTGGAA	GTGTAACAAT	TGCTAATGGA
GGAGTTTTGC	CCAACATTCA	TCAGACTCTT	CTCCCATCAA	AGGTTGGAAA	GAACAAAGGC
GATATCGGAT	CTGCTTCTCA	AGAGTTTTAA	TTTTATTTTT	TAGCTTGTA	CATAGACATG
GCTCTCTGTT	CCACAATAGT	TTTGGTATTT	TCATGTTACT	CAAAAACGTG	GTTTGCAAT
CCAGTAATGA	ATTCGGTTTG	AAGAAGTGAA	ATAGTTAAAT	TTGATGTGTT	GAAATAGCGG
ATTCAATGGC	TTCAATACAA	GTGCTAATAG	GTTTGGCTTT	AGCCATGGTT	TCTGCAAGTG
AGACTCTTGC	TTCTTTGTGA	GAATGTAATA	ATGAGACAGT	GTTGGAAACA	GCCCATTTGA
TATGAGCCTC	CTTTTCTGAT	T			

**FIG. 6(A)**

#### HTA4 - C

ATGGTGTGCA ACACGAATAT ACTAAAAGAT GTGTCGACGA AGATAAGTGC TTTTGAAAAT  
GTTTCGGATGA TTATGGTGGA GGGAGAGATG TTTCAAGTGG CTCGTATTCA CAAGCAACTT  
AAGAACAGAG TTTCTGCACA TAGTAGTGTT GGTGCGACTG ATGTTGTCTA CATGACTTCA  
ATCCTTGAAT ACCTAACTAC AGAGGTTCTT CAGTTGGCCG AAAACACTAG CAAAGATTTA  
AAAGTGAAGA GGATAACTCC AAGGCATTTG CAGTTGGCGA TCAGAGGAGA TGAAGAGCTT  
GACACACTCA TCAAAGGAAC AATTATTGGA GGAAGTGTGA TCCCTCACAT CCACTAG

#### HTA5 - C

CATATAGAGA AGAGCAAAAC CCTAAAGCCC ACTCATCTTC TCAATTCCCA GATCATCTAC  
AATAGTCATT TCTCTTCGAT TTCTTCAAAC TCTCATCAAA TCGTTTATCT GTTCTAAATT  
TCGAAGAAGA CGATGAGTAC AGGCGCAGGA AGCGGAACAA CCAAAGGTGG CAGAGGAAAG  
CCAAAGGCCA CCAAATCCGT CTCTCGATCA TCTAAAGCCG GTCTTCAATT CCCCCTCGGA  
AGAATCGCTA GATTCCTCAA ATCCGGTAAA TACGCCGAGC GTGTCGGTGC CGGAGCTCCG  
GTCTATCTCT CCGCTGTTCT CGAGTACCTC GCCGCCGAGG TGTGGAGCT GCGGGAAAC  
GCAGCAAGGG ATAACAAGAA GACACGTATA GTACCAAGAC ACATTCAGCT TGCAGTGAGG  
AACGATGAAG AGTTAAGCAA ACTTCTGGGA AGTGTGACGA TTGCGAATGG AGGAGTTTGT  
CCAAATATTC ATCAGACTCT TTTGCCATCC AAGGTTGGCA AGAACAAAGG AGATATTGGA  
TCTGCTTCTC AGGAGTTCTG AGGTTCTTAG ACTTCTTAGT TCAGTTCTCT TGTGTTGATT  
CGGAAC TTGT AAAATAGACC CTGATGGTGT TTTTGGGGA TCAAATTAGG TTTTAAAGCT  
AAGTATATTT GGCTTTTGCC TAAGTATGTT TAATTAGTGA ATGATATGAT ATTTCCGAAC  
GAATCATGTA TCAATGGAA

#### HTA6 - C

TTAAATCACA AATCTTCAAC TTCCGATACT TTCAATCTCT CTAAACTCTC AATTTTCAGTA  
ATCGATAACC GTAGCAATGG AATCCACCGG AAAAGTGAAG AAAGCTTTTCG GAGGAAGAAA  
ACCACCTGGT GCCCCAAAAA CCAAATCCGT TTCGAAATCG ATGAAAGCCG GTCTTCAATT  
CCCAGTGGGA AGAATCACTC GTTTCCTGAA GAAAGGACGA TACGCTCAGA GACTTGGTGG  
TGGTGCTCCG GTTTACATGG CCGCCGTTCT TGAATACCTC GCCGCAGAAG TTCTGGAGCT  
TGCTGGTAAC GCTGCGAGAG ATAACAAGAA ATCAAGGATA ATTCCGAGGC ATCTTCTTCT  
CGCGATAAGG AACGATGAAG AATTGGGGAA ACTTCTGAGT GGTGTACAAA TCGCTCACGG  
TGGTGTTTTG CCTAACATCA ACTCTGTTCT ATTGCCTAAG AAGTCTGCCA CTAAACCAGC  
TGAAGAAAAG GCTACCAAAAT CACCAGTCAA GTCTCCAAAAG AAAGCTTAAT CTGCTAGAGT  
TTTCGTTGCT AGTTTGTGTT TGAGCTCTGG TGAATGTAGA AATTTGAAGC TTTTGGATCT  
TAGTTTCTAT GTATTTGGTG ATTTAGAATG TTGTTCAAAA TCCTTTTCCT AATCATAAGA  
ATTTATGATC TATCTATTAT ACGCTTCGTC TAATCTTTT

#### HTA7 - C

CAAATCGTAA ACCGCCACAA AACCGAAAAA AACACTAATT GTGCTTTCCC TTTAGATTCA  
TTTGTATTTT CTTTTGGAGC TTTTGAACAA TGGAGTCATC ACAAGCAACG ACGAAGCCAA  
CGAGAGGAGC AGGAGGAAGG AAAGGTGGAG ATAGGAAGAA GAGTGTTAGT AAATCTGTTA  
AAGCTGGTCT TCAATTTCCC GTTGGTCGTA TCGCTCGTTA CTTGAAGAAA GGTCCGTACG  
CTCTCCGATA CGGTTCCGGT GTCGCGTTT ACCTCGCCGC CGTTCTCGAA TACCTAGCCG  
CCGAGGTACT TGAGCTAGCT GGGAACGCAG CGAGAGATAA TAAGAAGAAC AGGATAAACC  
CTAGGCATCT ATGTTTAGCG ATAAGGAACG ATGAGGAATT GGGGAGATTG CTTATGGAG  
TTACTATTGC TAGTGGTGGT GTTCTTCCAA ACATTAATCC AGTTCTTCTT CTAAGAAAT  
CAACAGCTTC TTCTTCTCAA GCGGAGAAAG CTTCTGCTAC CAAATCTCCT AAGAAGGCTT  
GATAAAGAAT AGTATCGATG TTGCTTTTTG GTTATATTCT GATCTTAGAT GAAGAAGAAG  
AAGAAGAAGA AACAAC TTGT TTTTGT TTTTGT AGAGGATTG TGTAGGTATC TGAAATCTTC  
TTCTCTTTGT TTTGGTTTGT CTTATGTAAA AACCATGGGA AGATGATTAT GTTTGTTAAC  
GCAATTTGTA ATGGAATAA ATTAAGTTCT GGGATTAGT

**FIG. 6(B)**

#### HTA8 - C

AATTCGACGT	CTCTCTTTTG	TCTCTGTATC	GATTTTCTCG	CCGCGAATTT	CGAATAGGTT
CTTCACCATA	AGCTTGAGAT	CTTATTTCTC	TACTGTTCTT	TGCTTCTTCT	CTATCGATAT
GGCTGGTAAA	GGTGGGAAAG	GGCTTCTAGC	TGCGAAGACG	ACGGCAGCAG	CTGCAAAACAA
AGACAGTGTT	AAGAAGAAAT	CCATCTCTCG	CTCTTCTCGT	GCTGGTATTC	AGTTTCCAGT
GGGTCGTATT	CATCGTCAAC	TCAAGCAAAG	AGTTTCAGCA	CATGGAAGAG	TTGGTGCCAC
TGCTGCTGTT	TACACTGCAT	CAATTCTAGA	ATACTTGACT	GCTGAAGTAC	TCGAGTTAGC
TGGAAATGCG	AGCAAGGATC	TCAAAGTGAA	GAGAATTACA	CCAAGACATT	TGCAGCTTGC
AATCAGAGGA	GATGAGGAAC	TTGACACTCT	CATCAAAGGA	ACCATTGCAG	GAGGAGGTGT
GATCCCTCAC	ATCCACAAGT	CCCTTGTCAA	CAAAGTCACC	AAGGATTGAG	TTTCGCTCTC
TGAGTCCTAA	GTCTCTATTA	TACTATGTGC	TCTTTTCTAG	ACGCCCTCAT	GTGTATATGG
GTTCATTGTA	TCTCTTAGGT	CTCTCGTTTT	AGACTCATAC	TCTTGTTATT	TTGCTAATGC
TTACATGATT	GAGG				

#### HTA9 - C

ATCGGGAGAC	TCCTCTTCGA	GCTCATCTTC	TTCTCTCTCT	TTTTATCTTT	GGTTGTGCGA
TCTCCTTTCT	CTTTCAATCT	CCAAGGATTT	TACTGTGAGA	TATTTGGCGG	GAAAATGTCTG
GGGAAAGGTG	CTAAAGGTTT	GATTATGGGG	AAACCCAGCG	GTAGCGACAA	GGATAAGGAC
AAGAAGAAGC	CTATCACTCG	TTCTTCTCGA	GCTGGTCTCC	AGTTCCCAGT	TGGTAGGGTG
CATCGTCTGT	TAAAGACAAG	GTCCACTGCT	CATGGAAGGG	TTGGAGCAAC	TGCAGCTGTT
TACACAGCAG	CAATATTGGA	GTATCTGACT	GCAGAAAGTT	TGGAGTTGGC	TGGTAACGCC
AGCAAGGACT	TGAAGGTGAA	ACGTATCTCG	CCGAGGCATT	TGCAGCTTGC	GATTCGTGGA
GATGAGGAGC	TCGATACTCT	CATCAAAGGA	ACTATAGCTG	GTGGTGGAGT	CATCCCTCAT
ATCCACAAGA	GTCTCATCAA	CAAATCCGCC	AAGGAATAGG	ACTTTTTTAG	TTACCCGCTT
TGTTCTGTGT	TGCTTTTCTG	TTTTCTAAAT	GTTTTTAAGA	GTTGTTGTTT	GATAAGATGC
TAGAGAAGCT	CTTTTTAGGA	TCGTTTGCTA	TTGTTTCGTT	GATCAGCGTA	CTTTGTGTTA
GAGACGCCAG	TCGATTTATC	TATCTTTAAA	AATGTATTCT	AATGATTATC	CAAAAACCAT
TTCTGA					

**FIG. 6(C)**

#### HTA10-C

AACAACAAAT TCGATTCTTA TAACTGTTTC CCTCTCATCT TTACACAAAA GTATTCTAAT  
CGATTTCAAT GCGGGTTCGT GGTA AACAC TCGGATCTGG GTCTGCGAAG AAGGCAACAA  
CAAGAAGCAG CAAAGCCGGT CTCCAATTCC CTGTGGGTCG TATCGCTCGT TTCTTGAAGA  
AAGGCAAATA CGCCGAACGT GTTGGTGCCG GAGCTCCGGT TTACTTAGCC GCCGTTCTCG  
AATACCTCGC CGCTGAGGTA TTGGAATTGG CTGGAAACGC AGCGAGGGAT AACAGAAGA  
CGAGGATTGT TCCAAGGCAT ATTCAATTGG CGGTGAGGAA CGATGAAGAA TTGAGCAAAT  
TGCTTGGAGA TGTGACTATT GCTAATGGAG GTGTGATGCC TAACATTAC AATCTTCTTC  
TTCCTAAGAA GACCGGTGCT TCCAAGCCAT CTGCTGAAGA CGATTGATTA ATCAACCAAA  
TCCACTCTCT TGTGTTTTTT GAGTTTTTAA GGCTTTTTAA GAGTAATTTA GATTAGATCT  
ATGGTGAAGA AAGAATCTAT CTTCTGTGTT TTTTGAATTG AATTGAATGT TCATATGCTT  
TCAATTTCTT ATGGAATCAA GATTTTAACT TTTCT

HTCCTTTTGCAT TCTCTCGTCG TCGTCTCAAG ATCTAGAAGA AGGAAACAAC AATTTCAAGA  
GACATGGCAG GCAAAGGTGG AAAAGGACTC GTAGCTGCGA AGACGATGGC TGCTAACAAAG  
GACAAAGACA AGGACAAGAA GAAACCCATC TCTCGCTCTG CTCGTGCTGG TATTCAGTTT  
CCAGTTGGAC GAATTCACAG GCAACTGAAG ACCCGAGTCT CGGCACATGG CAGAGTTGGT  
GCCACTGCAG CCGTCTACAC AGCTTCAATC CTGGAGTATC TGACAGCAGA GGTTCTTGAG  
TTGGCTGGGA ATGCGAGCAA GGATCTCAAA GTGAAGAGGA TAACGCCAAG GCATCTGCAG  
TTGGCGATTA GAGGAGATGA GGAGCTGGAC ACACTCATCA AGGGAACGAT TGCTGGAGGT  
GGTGTGATCC CTCACATCCA CAAGTCTCTC ATCAACAAAA CCACCAAGGA GTGATGTGTA  
GCTTTTTATG GTGTTTGTAT TTCTGTAGTC TTGGACTCAT TTTCTTTTAT CCTTTCTTA  
GTTCTTTGAC TAGTGTTGAC CTCTTCTGGA CATCCTCAGG TGTACATTAG TTAATTTGAA  
CTCTTTAGGT TCCTT

#### HTA11-C

CCTTTTGCAT TCTCTCGTCG TCGTCTCAAG ATCTAGAAGA AGGAAACAAC AATTTCAAGA  
GACATGGCAG GCAAAGGTGG AAAAGGACTC GTAGCTGCGA AGACGATGGC TGCTAACAAAG  
GACAAAGACA AGGACAAGAA GAAACCCATC TCTCGCTCTG CTCGTGCTGG TATTCAGTTT  
CCAGTTGGAC GAATTCACAG GCAACTGAAG ACCCGAGTCT CGGCACATGG CAGAGTTGGT  
GCCACTGCAG CCGTCTACAC AGCTTCAATC CTGGAGTATC TGACAGCAGA GGTTCTTGAG  
TTGGCTGGGA ATGCGAGCAA GGATCTCAAA GTGAAGAGGA TAACGCCAAG GCATCTGCAG  
TTGGCGATTA GAGGAGATGA GGAGCTGGAC ACACTCATCA AGGGAACGAT TGCTGGAGGT  
GGTGTGATCC CTCACATCCA CAAGTCTCTC ATCAACAAAA CCACCAAGGA GTGATGTGTA  
GCTTTTTATG GTGTTTGTAT TTCTGTAGTC TTGGACTCAT TTTCTTTTAT CCTTTCTTA  
GTTCTTTGAC TAGTGTTGAC CTCTTCTGGA CATCCTCAGG TGTACATTAG TTAATTTGAA  
CTCTTTAGGT TCCTT

**FIG. 6(D)**

#### HTA12-C

ATGGATTCCG GAACCAAAGT GAAGAAAGGA GCCGCTGGAA GAAGAAGTGG TGGAGGTCCT  
AAGAAGAAAC CGGTTTCCCG TTCGGTTAAA TCCGGTCTAC AGTTTCCTGT CGGTAGGATC  
GGTCGGTATC TTAAGAAAGG TCGTTATTCTG AAGCGTGTCTG GAACCGGAGC TCCGGTCTAT  
CTCGCCGCCG TCCTCGAGTA TCTTGCTGCT GAGGTTCTCG AGCTTGCTGG TAACGCTGCA  
AGAGATAACA AAAAGAACCG TATTATACCA CGCCATGTTT TATTAGCGGT GAGGAACGAC  
GAGGAGCTAG GGACACTACT CAAAGGCGTA ACCATTGCAC ACGGCGGTGT TTTACCAAAC  
ATAAACCCAA TACTCCTCCC AAAGAAGTCT GAGAAAGCAG CTTCAACTAC AAAAACACCC  
AAATCACCAT CAAAGGCAAC CAAATCCCCT AAGAAATCTT AGTACTTCTT TCTTCATTCC  
TCTGTATAAC CTACTGTTTC TATCTCTCTG TACGTTTCTC TGTAAGACA GAACAGAATA  
TCTCTTTGTT GTTGTGAGAA AGCTTAGTTT CTCTGATCGT CGTTGTGAAA TAAAAAATGC  
AACGTTTCAT AT

#### HTA13-C

ATCTTAATTT CCCTCGCATT GAGAATTTTC AACTTTTTCT ATCTCTCTTC CCAAATCACA  
AATGGCGGGT CGCGGCAAAA CTCTCGGATC TGGCGTTGCT AAGAAATCAA CATCGAGAAG  
CAGCAAAGCC GGTCTCCAAT TCCCCGTTGG TCGTATCGCT CGTTTTCTAA AGAACGGCAA  
GTACGCAACA CGTGTGTTGGT CCGGAGCTCC GGTTTACTTA GCCGCCGTTT TCGAATACCT  
CGCCGCTGAG GTATTGGAAT TGGCTGGAAA CGCAGCTAGG GATAACAAGA AGACTAGGAT  
TGTGCCACGT CACATTCAGC TCGCGGTGAG AAACGATGAG GAGCTGAGTA AACTGCTTGG  
AGATGTGACG ATTGCTAATG GAGGTGTGAT GCCTAACATT CACAGTCTTC TTCTTCCCAA  
GAAAGCTGGT GCTTCAAAAC CTTCCGCTGA TGAAGATTAG ATTAGGGATT TGTGTTGTGG  
TTGTTTAGCT AATTAATGTG TAGCTTAGTC TTTCATTAGA TTAGATCTGA ATTAGTTTTC  
ATTAATGGTG TTGTGTAGTC TCTCTTTTGC TTCAAAAACA AGTATTAAAA TC

**FIG. 6(E)**

HTA1-P

MAGRGTGLGS GGAKKATSRS SKAGLQFPVG RIARFLKAGK YAERVGAGAP VYLAADVLEYL  
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK  
KAGASKPQED

HTA2-P

MAGRGTGLGS GAAKKSTSRs SKAGLQFPVG RIARFLKAGK YAERVGAGAP VYLAADVLEYL  
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK  
KAGSSKPTEE D

HTA3-P

MSSGAGSGTT KGGRGKPKAT KSVSRSSKAG LQFPVGRIAR FLKAGKYAER VGAGAPVYLS  
AVLEYLAAEV LELAGNAARD NKKTRIVPRH IQLAVRNDEE LSKLLGSVTI ANGGVLPNIH  
QTLPLSKVGK NKGDIGSASQ EF

HTA4-P

MVCNTNLIKD VSTKISAFEN VRMIMVEGEM FQVARIHKQL KNRVSAHSSV GATDVVYMTS  
ILEYLTTEVL QLAENTSKDL KVKRITPRHL QLAIRGDEEL DTLIKGTIIG GSVIPHIH

HTA5-P

MSTGAGSGTT KGGRGKPKAT KSVSRSSKAG LQFPVGRIAR FLKSGKYAER VGAGAPVYLS  
AVLEYLAAEV LELAGNAARD NKKTRIVPRH IQLAVRNDEE LSKLLGSVTI ANGGVLPNIH  
QTLPLSKVGK NKGDIGSASQ EF

HTA6-P

MESTGKVKKA FGGRKPPGAP KTKSVSKSMK AGLQFPVGRI TRFLKKGRYA QRLGGGAPVY  
MAADVLEYLA AEVLELAGNA RDNKKSRIIP RHLLLAIRND EELGKLLSGV TIAHGGVLPN  
INSVLLPKKS ATKPAEEKAT KSPVKSPKKA

HTA7-P

MESSQATTKP TRGAGGRKGG DRKKSVSksv KAGLQFPVGR IARYLKKGRY ALRYGSGAPV  
YLAADVLEYLA AEVLELAGNA ARDNKKNRIN PRHLCLAIRN DEELGRLLHG VTIASGGVLP  
NINPVLLPKK STASSSQAEK ASATKSPKKA

HTA8-P

MAGKGGKGLL AAKTTAAAN KDSVKKKSIS RSSRAGIQFP VGRIHRQLKQ RVSAHGRVGA  
TAAVYTASIL EYLTAEVLEL AGNASKDLKV KRITPRHLQL AIRGDEELDT LIKGTIAGGG  
VIPHIKSLV NKVTKD

HTA9-P

MSGKGAKGLI MGKPSGSDKD KDKKKPITRS SRAGLQFPVG RVHRLKTRs TAHGRVGATA  
AVYTAAILEY LTAEVLELAG NASKDLKVKR ISPRHLQLAI RGDEELDTLI KGTIAGGGVI  
PHIHKSLINK SAKE

**FIG. 7 (A)**



HTA10-P  
MAGRGKTLGS GSAKKATTRS SKAGLQFPVG RIARFLKKGK YAERVGAGAP VYLAADVLEYL  
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHNLLLPK  
KTGASKPSAE DD

HTA11-P  
MAGKGGKGLV AAKTMAANKD KDKDKKKPIS RSARAGIQFP VGRIHRQLKT RVSAHGRVGA  
TAAVYTASIL EYLTAEVLEL AGNASKDLKV KRITPRHLQL AIRGDEELDT LIKGTIAGGG  
VIPHIHKSLL NKTKE

HTA12-P  
MDSGTKVKKG AAGRRSGGGP KKKPVSRSVK SGLQFPVGRI GRYLKKGRYS KRVGTGAPVY  
LAADVLEYLAA EVLELAGNAA RDNKKNRIP RHVLLAVRND EELGTLLKGV TIAHGGVLPN  
INPILLPKKS EKAASSTKTP KSPSKATKSP KKS

HTA13-P  
MAGRGKTLGS GVAKKSTSRs SKAGLQFPVG RIARFLKNGK YATRVGAGAP VYLAADVLEYL  
AAEVLELAGN AARDNKKTRI VPRHIQLAVR NDEELSKLLG DVTIANGGVM PNIHSLLLPK  
KAGASKPSAD ED

**FIG. 7 (B)**

HTA1-g

ctcacttttaa cattttttata tagtgacatt ttttagtaatc caacgttatt tatatgatta  
gtaattcatc aaattttatat agtgataaaa ttccacaatg gttgttcaat aaaaatatga  
acaacacaat agaattagta aaagtgacta tgttaaatca ttttcttcgc tgggggtttgg  
tgggcgagtt ctaaaccat aagcggccca tttacttcgt aaactcaatt cgatttgttc  
agcgttccaa gcccataata ttattttcaa gggcataaaa taaattgagg tttatatgga  
aaatttgga attccctcgt ccagaagaaa ccaacaaaaa ctgcaaaagt tcaagcggtg  
ggagaaaaaa cttcagatcg tagccattca tttaaattata atcaacggtt taaacctctt  
cgatccgcgt actctattct tattggtcaa ataacttaat cctccaacat atataaacia  
caatcagatt tctctctgtT AATTTTCGTCA AGAAAAAAT TCGATTTTTT TGCGCTCTTT  
GTGGGTGTT GTTGTTGAAA ATGGCTGGTC GTGGAACAC TCTTGGATCC GGTGGGGCGA  
AGAAAGCTAC ATCTCGGAGT AGCAAAGCCG GTCTTCAATT CCCGGTGGGT CGTATCGCTC  
GTTTCTTAAA AGCCCGTAAA TACGCCGAAC GTGTTGGTGC CGGTGCTCCG GTTTATCTCG  
CCGCCGTCTT CGAATATTTG GCCGCCGAGg taaaattaca tcgtcttttc tctctttccc  
attccgtttc cgatcttatt cgtctgactc tgtttttgcg tgatcgatta cgaatctagg  
gttcttacat tttccgaatt tgacatgcaa aaattgaatt agattcgtgt ttgaattgaa  
ttgttgtagt tctgtaattg acctaatttt ggggttggtc tgattgggtg atggtaatcg  
agatcatatg aatcgttgta gttttctcgc aagattctaa atttttttca attatggtaa  
ccaatttgat ttgagttgtt aaagtctca aatttggaat gtttgatcat gaattgtgtg  
ttttgaattt gttcagGTTT TTGAATTAGC TGGAAACGCA GCAAGAGACA ACAAGAAGAC  
ACGTATTGTT CCTCGTCACA TTCAGCTTGC GGTGAGAAAC GATGAGGAGC TAAGCAAGCT  
TCTTGGAGAT GTGACGATTG CTAATGGAGG AGTGATGCCT AACATCCACA ATCTCCTTCT  
CCCTAAGAAG GCTGGTGCTT CAAAGCCTCA GGAAGATTAG GTCTTTTAAC ACAATGATAT  
AGAACACGTC TCTCTTTTGG CTTTAGATCT AATAACCTAA TAACTAGCTA GATGTTTCA  
CTTTTTGTAT CTTTGCTTTT TTTAATTCCT TTAGGGATTG GTTTCTTTCC GTTTCTGTTT  
CGACATGTTG TTTCTGTTTT TGTGAATATA TGAAAGTATT TTGCgaaata tgaatgataa  
tgtctttcaa aaatgctgat gccttattca acaagcaaac actgcacttt gtagaagtat  
aaagattttc tttgttggtg atagtaatag tacaagaaaag aaaaaaacac aaaggattat  
tattctatgg ccaacaagat tgaaaaaata tgaaaagaaa gtatttctaa gactaaa

FIG. 8 (A)

## HTA2-G

```

tgtggctttt cagccaccac aatatgtcat acaacttgca actgttatta tccaaattta
aaccacata aagaatacgt ctaaaaagca aacaataatc attacaacac ttagtaagtt
ataacttctc cctaacttct ttgaaatttt gataaaaagg aaaatacata tgtacaagaa
gtgaagaaac aattttatttg ggccgaacag tgttaaattt tgggccagat aacgttaaaa
taaaaaggag tattttctatt taacaagccc aatatagccc atataacaat ccattgaaat
catcggagaa ccaaaaaaag gacaaagcag gtgggcgcac gaatctcaaa tcacgtccct
taaacttgta acaatctgac ggtgtagatt atcgatccat gcagtgtcat atcattggtc
agaaatattt tctatctcgc cactatatta atcatcatgg cgggtttcgc tgatactcat
tattgttatt tttgacagaG AGAAATTTCT CAGTTACGCT TCATCCTCCT CTAAGAGATC
TTTTTCTAT CTTGGGTAGT AGAGAGAAAT GGCGGGTCGG GGAAAACAAC TTGGATCTGG
TGCAGCGAAG AAGTCTACTT CTCGTAGTAG CAAGGCTGGG CTTCAATTCC CTGTTGGTCG
TATCGCTCGA TTTTGTAAAG CCGGTAAGTA CGCCGAGCGT GTTGGTGCCG GAGTCCGGT
CTATCTCGCC GCCGTTCTTG AATACCTCGC CGCTGAGgta atcagtctct tctattttatc
acctgtttaa tttactcttt ttaccgaatt aaatggttat agcttgcac tagggttctg
gatttttagat tttcttacct ctttcgttaa attatgcgaa atttggaata ttttagaatg
tgagctcaat ttgtgtttct ttgtgctcat catgcttatt gaaattaggg ttaaatttgt
tccttactac tttgagttat catagtggc actgattgat actgtcaatt gtgttctcaa
attcgaaaaa tgttgttggt cacttagttt tgtctttgga tatgtgaaca tgtctgcttg
ggaactgaat ttggtgcgct cactttctat agGTACTTGA GCTTGCTGGG AACGCAGCGA
GAGACAACAA GAAGACCCGT ATAGTTCAC GACACATTCA GCTTGCTGTG AGGAATGATG
AGGAGCTAAG CAAGTTGCTT GGAGATGTGA CAATTGCTAA TGGAGGAGTG ATGCCAACA
TCCACAATCT CCTTCTCCCC AAGAAGGCTG GTTCATCTAA GCCTACTGAA GAAGATTAGG
TTCATTACGA AGATAGGGAA AGCTGGAAC TGGTTGATAT CAGATAATGC TTAGGATTGT
TTTTTTTTTC ATTTGCTTTT CCTCTGCAGC AATGGAAGCT GTGTGGTTGT ACTAGTTGTT
AAGGTTACCT TTGTTTCACT TTATGTGAAT ATATGAAGAA ATTTGTTCTAT TTCagtcttg
actccacttc tttagcattg ttcactgatt catttgttgt tcctgaaagt caatttaa
tccttcgata agctacacga aactgcacac atagtcacat gtaacttggt tttaaacttt
ttgttttggt ttgttttttg ttgaaaactc gagaaaaaaa gaatcagtag acccataatc
acagaaaagt caagccacca agcgattcga catagacagt ggagaagtga cgagattgag
agaatcgagg cgagagagag agagagacag ggacgattcg gtttagagct ctcgtatgag
gtatatattca atttcgtttt cggcgatatc ttgtgtcgca aat

```

FIG. 8 (B)

HTA3-G

gtttgacttt	ataaaaaacat	gcagaaatgt	acaaagaata	tatacatata	attatcttaa
ttaatttaaat	aactatcaat	ctgtcatact	acaccactat	caatctatca	tcatcaccac
cattatgctt	gacagtcact	ttttagttgg	cccatgttaa	agctgtttgt	gttatttggt
attgggctta	tccttcacta	ccatttgatt	gaaattttatc	tcatgaccca	acaaattgag
ctaatttcgg	ttcaacattg	gatgttaatt	ttttttcaaa	ccgaaccgaa	ttatagtttt
ggtgcatttt	ttctaaaccg	aatttttaaca	caaatagtaa	tcgtcttaaa	aaattcaccg
acttgttaaa	aagaggcgga	aaaaaaaaacc	cgcgagaact	tacaatgggtg	ccacgctggc
aatccgcgtg	actcacaact	aaccaatcaa	aatccattat	ctcaacgcta	tatatttcag
aaatcacaac	ctaaaccctA	AATCACTCCA	CTCACAAAAT	CCTCAGCCAT	CTCTAATCAC
ATTTTACAAT	CGCCTCTTCA	AATTTCCCGA	TAAACAAAAA	ATGAGTTCCG	GCGCCGGCAG
TGGAACAAC	AAAGGTGGCA	GAGGAAAGCC	AAAAGCTACA	AAGTCCGTCT	CTCGATCTTC
TAAAGCTGGT	CTTCAATTTT	CCGTTGGAAG	AATCGCTAGA	TTCTTTAAAG	CCGGTAAATA
CGCCGAACGT	GTTGGTGCCG	GTGCTCCCGT	TTATCTCTCC	GCCGTTCTCG	AATACCTCGC
CGCTGAGgta	acaaacaatc	ttctgtttgg	tatttagtct	tttagtctct	atgatgagaa
tcactcgtaa	ttgatataatc	actagatttt	tcgatgttta	ccgaatcttt	gattttgatt
tgatgttaag	gtgtcttcta	gagtctgatc	tcttatatga	tggtgatata	atcattagGT
ATTGGAGCTA	GCTGGAAATG	CAGCAAGAGA	TAACAAGAAG	ACACGTATCG	TACCACGGCA
CATTGAGCTT	GCAGTGAGGA	ACGATGAAGA	GCTTAGTAAA	CTTCTTGGA	GTGTAACAAT
TGCTAATGGA	GGAGTTTTGC	CCAACATTCA	TCAGACTCTT	CTCCCATCAA	AGGTTGGAAA
GAACAAAGGC	GATATCGGAT	CTGCTTCTCA	AGAGTTTTAA	TTTTATTTTT	TAGCTTGTA
CATAGACATG	GCTCTCTGTT	CCACAAATAGT	TTTGGTATTT	TCATGTTACT	CAAAAACTGT
GTTTGCAAAT	CCAGTAATGA	ATTTCGGTTTG	AAGAAGTGAA	ATAGTTAAAT	TTGATGTGTT
GAAATAGCGG	ATTCAATGGC	TTCAATACAA	GTGCTAATAG	GTTTGGCTTT	AGCCATGGTT
TCTGCAAGTG	AGACTCTTGC	TTCTTTGTGA	GAATGTAATA	ATGAGACAGT	GTTGGAAACA
GCCCATTGGA	TATGAGCCTC	CTTTTCTGAT	Tctgtgaagc	cgagccaccg	cagaacatcg
ttcaactgca	acactcaaat	ctcaaaaaat	acattagaag	attatagtct	catgactatg
agtggaagga	gacttgagtt	tgtattacct	tgacaatatc	tgagtatag	

**FIG. 8 (C)**

# HTA4-G

ttaagactga	taagtatcaa	caagcgaagt	tttgatttgc	ttggtgaagc	tagtctcgga
cttcaaata	cacttgatat	gttcatacat	gtaacatgtg	aagaagaact	tattttggaa
cccaaagaca	tgaatagttt	gaaaaccttt	ctcatgagaa	tatgcaatgt	taagatcttt
tacttgtctt	atgacactct	ataggtcagt	cccatctttt	ttgttaaagt	ttacaattga
caattagtta	gtgatgatata	agttaacttg	gtttttgttt	cacgaactta	atgactgaag
ttaaacaata	cagggtattca	acaacctgat	tcagttaact	atgttgccat	gtatagagag
ggaatcactg	ccaaatctac	tcaagaattt	tccaaatcta	gaaaccttct	tctatgaagt
aacatacaca	ttcttgatat	taacaactga	catgatttta	cacagtaata	aattttgaaa
cggctctcatt	ttatgtttcA	TGGTGTGCAA	CACGAATATA	CTAAAAGATG	TGTCGACGAA
GATAAGTGCT	TTTGAAAATG	TTCGATGAT	TATGGTGGAG	GGAGAGATGg	tatgatagga
gaagtctttt	gctcatagaa	gtagagtgtc	aacagttcac	aatgacttta	caatctatgt
ggctccttga	aacaataaac	tatggatgtg	cataactaat	ggacaatctt	catatttagg
aatgactaaa	atatcttaac	taatgcttaa	acactcatgt	gtcaccaaat	aacaatacat
ggaacatgag	tgtcaataat	gaccttgtat	tgtaatgggt	cgctggttta	gttgaagttc
cagtagcaca	taccgaaact	acattccttt	tttatggagt	aattctgttt	taggatattt
ttagggtttt	tggattttgt	ataagacaaa	aaaaaacaca	aacacaataa	gctacttaac
tagaaaataa	catcatcata	taatttgact	aaataaacia	atcacttctt	cgtaggtttt
ttgatgagag	acatgtggat	gtgagagact	actccttatc	caccaattgt	tactttgata
aatggatcaa	gatccctatc	tcctgcgatc	accaactata	aatgcattag	agtaatcctc
tttattttct	tatcattgat	tgtgtttttc	ggtaactcaa	taacctatga	agttaggcac
tctaggattg	aagccatgta	gtcaacaaca	atagcaccaa	gtcgaccatg	ttgtagatac
tctagtcttg	agttgcatgt	gaatacgacc	cactagaaat	tgaaataaac	aaagaaattt
cattttttgt	agtataattt	gataaaaattt	tatactgata	ttgtttcttt	gtttctttca
gTTTCAAGTG	GCTCGTATTC	ACAAGCAACT	TAAGAACAGA	GTTTCTGCAC	ATAGTAGTGT
TGGTGC GACT	GATGTTGTCT	ACATGACTTC	AATCCTTGAA	TACCTAACTA	CAGAGGTTCT
TCAGTTGGCC	GAAAACACTA	GCAAAGATTT	AAAAGTGAAG	AGGATAACTC	CAAGGCATTT
GCAGTTGGCG	ATCAGAGGAG	ATGAAGAGCT	TGACACACTC	ATCAAAGGAA	CAATTATTGG
AGGAAGTGTG	ATCCCTCACA	TCCACTAGtc	tcatacaaca	aacaaccaag	gagtgttttg
tttcttaagt	taactaatat	gatgtgatata	gctagttaag	tagcttatgg	tgtttcagtt
actctagttt	tggatcggag	aagtagttta	agtgttaagt	cttgagacat	cataatttta
cgtctcatct	cgtaaacgat	aggagaagtt	ctttgctcct	agagttttgg	tgctaaacaa
ttcacagtga	tatgcattcc	atgtggctcc	ttaaaacact	caaccatgca	tgcacaagca
gtggaccatc	ttcatattca	tgactgacta	aaatattgtc	atcaatgctt	actaatatgt
caaattgtag	taactcgggtg	gtttaattga	agtttcattg	ttatatatat	ggcgtatagg
cctaaagttg	tatgaagttt	tgattgatga	gttaagacat	cgtattatat	aaagtaggat
tttcaagtta	ctaactcaac	tgattaagac	acaagtcaag	tactttga	

FIG. 8 (D)

HTA5-G

```
agtaaaagga gatgtacgaa ccatagatca cataataatt gaaagggtag atgatctgcc
acgttggcaa tccgtgtgat ctaaagtcta acaaatcaca atcaatctta gtagcctata
tattgattta ttcttgttgc ttgatcaata aaggttacat catagaacta aaatcatatg
aaaccgaatc gatcaaccct ggccatcttt taaataacca tcaatacatt gggatgatca
atccacaata aatgtattga tgtaaattaa aaatatgaac ttgtaacaga tcaagattca
gggtctaaaa ttatagaaaag cttaataatg gaggactatt tcactaaaat cacttttcgt
ttgtacatta ttttcaaaaa gtaaaaggag atgtacgaac catagatcac ataataattg
aaagggtaga tgatctgcc a gttggcaat ccgtgtgatc taaagtctaa caaatcacia
tcaatcttag tagcctataC ATATAGAGAA GAGCAAAACC CTAAAGCCCA CTCATCTTCT
CAATTCCCAG ATCATCTACA ATAGTCATTT CTCTTCGATT TCTTCAAAC CTCAATCAAAT
CGTTTATCTG TTCTAAATTT CGAAGAAGAC GATGAGTACA GGCGCAGGAA GCGGAACAAC
CAAAGGTGGC AGAGGAAAGC CAAAGGCCAC CAAATCCGTC TCTCGATCAT CTAAAGCCGG
TCTTCAATTC CCCGTCGGAA GAATCGCTAG ATTCTTCAAA TCCGGTAAAT ACGCCGAGCG
TGTCGGTGCC GGAGCTCCGG TCTATCTCTC CGCTGTTCTC GAGTACCTCG CCGCCGAGgt
aatttatttt tcttgtcttc caatttggtt ttcaatttcg atttggtcac atctgaattg
gatcttgtac tgatttgatt ttgatttggt ttgggttgat agGTGTTGGA GCTGGCGGGA
AACGCAGCAA GGGATAACAA GAAGACACGT ATAGTACCAA GACACATTCA GCTTGCAGTG
AGGAACGATG AAGAGTTAAG CAAACTTCTG GGAAGTGTA CGATTGCGAA TGGAGGAGTT
TTGCCAAATA TTCATCAGAC TCTTTTGCCA TCCAAGGTTG GCAAGAACAA AGGAGATATT
GGATCTGCTT CTCAGGAGTT CTGAGGTTCT TAGACTTCTT AGTTCAGTTC TCTTGTTTGG
ATTTCGGAAC TGTAAAATAG ACCCTGATGG TGTTTTTTGG GGATCAAATT AGGTTTTTAA
GCTAAGTATA TTTGGCTTTT GCCTAAGTAT GTTTAATTAG TGAATGATAT GATATTTCCG
AACGAATCAT GTATCAATGG AActgaatta atcgatatat caaccagaa acattttgaa
acacaaacta tgcataactg attctttatt gcagatacat gcaactcatg gagcctaata
ctaaacattg ctttgatcat gtttcaattt aaccagactc attttttaat tcaaccaggg
agtaaaactc attaggtttt gggcctaact gcctcagtca tggtaatcct gaattaactt
cactaagtta ccctcatctg ttggttcgca cctgaattag ctcgctaaat taccttcac
t
```

**FIG. 8 (E)**

## HTA6-G

```
gtctataaac tattaaactc taggggtttaa tatgtacaaa ttctcttagg ctacttttga
ttaggactcc cttgtgaatg tcaaaacata atgcgacccc aaaatatctt tataagtata
attgttaatc ttttgattct aaaatatgtt tcattgtttt ccaattaggg cttcaaagac
tcttgagaag catcattaaa catttaaatg tcaatgacta actttacatt taacatataa
ttaatctacc gaaaattagt gtaagttgca agaaattatc caaaaaccca aaataaagca
agcgctaaac ttttaaaatg ctacaaaaaa actggcgccg tttcaaaaag catacctctt
tttgattggg taatacatag tcacgcggat cgtgctttat ttgaacatcc accgtcgata
gactaaatcc aacggataat aatcctctcc cttctttttt tttcatttac ctataaatat
cacagagtac ccttcaactT TAAATCACAA ATCTTCAACT TCCGATACTT TCAATCTCTC
TAAACTCTCA ATTTTCAGTAA TCGATAACCG TAGCAATGGA ATCCACCGGA AAAGTGAAGA
AAGCTTTTCGG AGGAAGAAAA CCACCTGGTG CCCCCAAAAAC CAAATCGGTT TCGAAATCGA
TGAAAGCCGG TCTTCAATTC CCAGTGGGAA GAATCACTCG TTTCTGAAG AAAGGACGAT
ACGCTCAGAG ACTTGGTGGT GGTGCTCCGG TTTACATGGC CGCCGTTCTT GAATACCTCG
CCGCAGAAgt aagtgtttcc cgatctggat tttctagtaa gatttttttt ttacatttca
aaatcaattt tctgattcga atttattgat ctcagGTTCT GGAGCTTGCT GGTAACGCTG
CGAGAGATAA CAAGAAATCA AGGATAATTC CGAGGCATCT TCTTCTCGCG ATAAGGAACG
ATGAAGAATT GGGGAAACTT CTGAGTGGTG TCACAATCGC TCACGGTGGT GTTTTGCTTA
ACATCAACTC TGTTCTATTG CCTAAGAAGT CTGCCACTAA ACCAGCTGAA GAAAAGGCTA
CCAAATCACC AGTCAAGTCT CCAAAGAAAG CTTAATCTGC TAGAGTTTTC GTTGCTAGTT
TGTGTTTGAG CTCTGGTGAA TGTAGAAATT TGAAGCTTTT GGATCTTAGT TTCTATGTAT
TTGGTGATTT AGAATGTTGT TCAAAATCCT TTTCTAATC ATAAGAATTT ATGATCTATC
TATTATACGC TTCGTCTAAT CTTTtggtcc actcgtcgta atgtcattag tgaatattta
ataaacaact ttgtcatcga cattaacgaa cccttttatt cgctgtgcta aatttttctt
ttaggtgaag ccaaactcaa catgttctct tctctctttg ttcgttgtaa ttccataaca
tctccattac gatgttttgc gattcgagga tcttgttcta aattatt
```

**FIG. 8 (F)**

HTA7-G

cgtgggtatat	acatacacgt	cgttctttcc	tcattttaag	tcttcatttg	tcatggagct
tagaagatta	cagttgaata	tcttaaactc	tctttcttaa	tcacattttt	tgtacttatt
acactaatta	aaaccagagt	ttgggtaata	atttttgttt	ccttaatttt	ccgaattatc
cgctaatttt	ctactcta	tctctggata	ttttaataa	tagtaataat	ctgctgtcaa
aataagataa	gaaaaagaca	taaagctgat	tatcttgtag	aacgtgtggg	gaatgaatct
aacggctgat	atcactcaag	tgttcttttc	caccttcctt	ttacaacacc	cacgtgtaat
gtcatacaaa	gaagtcatta	cgaccgtag	atcaaagcca	acaagatcca	atcttaacgg
ctaagataaa	ttactacacg	gatcgccaac	gtggcaatac	gtggtatata	catacacgtc
gttcttttct	cattttaagC	AAATCGTAAA	CCGCCACAAA	ACCGAAAAAA	ACACTAATTG
TGCTTTCCCT	TTAGATTCAT	TTGTATTTTC	TTTTGGAGCT	TTTGAACAAT	GGAGTCATCA
CAAGCAACGA	CGAAGCCAAC	GAGAGGAGCA	GGAGGAAGGA	AAGGTGGAGA	TAGGAAGAAG
AGTGTTAGTA	AATCTGTAA	AGCTGGTCTT	CAATTTCCCG	TTGGTCGTAT	CGCTCGTTAC
TTGAAGAAAG	GTCGGTACGC	TCTCCGATAC	GGTTCCGGTG	CTCCGGTTTA	CCTCGCCGCC
GTTCTCGAAT	ACCTAGCCGC	CGAGgtatat	tcaatctcag	atctcgttgc	attttgaatc
gattttatttt	gtgtatctat	tagatctggt	taattttgaa	gttctaata	attgaaccgg
tttggttttag	GTACTTGAGC	TAGCTGGGAA	CGCAGCGAGA	GATAATAAGA	AGAACAGGAT
AAACCCTAGG	CATCTATGTT	TAGCGATAAG	GAACGATGAG	GAATTGGGGA	GATTGCTTCA
TGGAGTTACT	ATTGCTAGTG	GTGGTGTCT	TCCAAACATT	AATCCAGTTC	TTCTTCCTAA
GAAATCAACA	GCTTCTTCTT	CTCAAGCGGA	GAAAGCTTCT	GCTACCAAAT	CTCCTAAGAA
GGCTTGATAA	AGAATAGTAT	CGATGTTGCT	TTTTGGTTAT	ATTCGGATCT	TAGATGAAGA
AGAAGAAGAA	GAAGAAACAA	CTTGTTTTTT	GTTTGTAGAG	ATTTGTGTAG	GTATCTGAAA
TCTTCTTCTC	TTTGTTTTTG	TTTGTCTTAT	GTAAAAACCA	TGGGAAGATG	ATTATGTTTG
TTAACGCAAT	TTGTAATGGA	AAATAATTAA	GTTCTGGGAT	TAGTaacttc	atctgtctaa
ttaattttctg	ggtttcgtac	ttgttgattt	aaacaattta	ggtggattaa	ttgaaatggt
tttgggtatac	acatggaaag	attcagtaca	gttaatgaca	ttaattaaag	tagataataa
tcacgaaaaa	catgacatta	attaagaaaa	tgattgttca	aattgggctt	tgtttgggct
tagttgatag	gcccgttaga	atttatgttc	ttggttcatc	tacgagattc	tggaaaaggg
gtttttggttt	tccggtgggg	tttagaattt	aaacaagacg	cgatttcgaa	tttcgttctt
gtagaatcaa	attgtttggt	ttcaatcttg	gatttgcgat	gatgaatttt	ctggttcgat

**FIG. 8 (G)**



HTA8-G

```
cacacttaaa tctttctttg ttttaataaaa agtataatca aaaatttgaa agagagaata
cgtttcatta ttttttttaa ataccatcat gagagggtgg atgaatatcc actatatattt
aactacaaat cttcttttga ataatttgca attttatgtg atataaattt ttagtaaaat
aattattttc caacaacaca agatttgaac gaattttgta aagatatcta aatataaatt
taacatgttg acccaaaaaa tgaagaatta taacaattta gaaaagccgg cccaacaaga
tccacaagag ctaaacaaaa tccggcccaa caataagtcc aaactttaaa agctctcccg
cacaattttc gagcatcccg ctctcgtttt caggtaacttc cctctctgag ctagggtttt
AATTCGACGT CTCTCTTTTG TCTCTGTATC GATTTTCTCG CCGCGAATTT CGAATAGGTT
CTTCACCATA AGCTTGAGAT CTTATTTCTC TACTGTCTT TGCTTCTTCT CTATCGgtta
attatcttct ttgatttcga cgacggatct ggaaattctg aaattttgtg aagctctttt
ctttttgttt ggtttctgta gATATGGCTG GTAAAGGTGG GAAAGGGCTT CTAGCTGCCA
AGACGACGGC AGCAGCTGCA AACAAAGACA GTGTTAAGAA GAAATCCATC TCTCGTCTT
CTCGTGCTGG TATTCAGgta tccctcaaac cctagctcct tttttgagaa tcgagtggtc
cggagtttga atgtgcgtta ggtttttttg attatgttca attgtgaatt gggaaccaga
tttgatattc gttctgtgtt taatgcattt ttgggaaatt gcttcctctc tgatttctgg
aaatatgttt tactctgtgt ttcttcatta aagttacaat gtgtgcttga tactggactt
ttattgtctc tatgactcta tgccaagtag cattattttt ggtgtgtctc attttatgac
tgtgatatgg tagcttgcgt gttctatacg gttgatacac acaagcttga tttctctgtg
tgcacttctt gtagttgcgt atgaagaaaa acagtgcctat ctatctagat tctagagtaa
tttgataaca atagagtact accaattgat actgagcctt aatgggagca tctacttgct
ctctctgtgt gtgtgttctg gaaatctaag ccaaacattg tcctgttatt gtcattagtt
tacttttggg attcttcctt gttaaagccg aattgtacat atcattgaat ccatgttact
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agtgtcttat taatatatat ctatctacaa gaagatctgt ctcagtctga ttaatgggaa
gcctttctct gtgccctaaa gttatgtgct tattttgttt tctcaatgtg gtattctttc
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TTGGTGCCAC TGCTGCTGTT TACACTGCAT CAATTCTAGA ATACTTGACT GCTGAAGTAC
TCGAGTTAGC TGGAATGCG AGCAAGGATC TCAAAGTGAA GAGAATTACA CCAAGACATT
TGCAGCTTGC AATCAGAGGA GATGAGGAAC TTGACACTCT CATCAAAGGA ACCATTGCAG
GAGGAGGTGT GATCCCTCAC ATCCACAAGT CCCTTGTCAC CAAAGTCACC AAGGATTGAG
TTTCGCTCTC TGAGTCCTAA GTCTCTATTA TACTATGTGC TCTTTTCTAG ACGCCCTCAT
GTGTATATGG GTTCATTGTA TCTCTTAGGT CTCTCGTTTT AGACTCATAC TCTTGTTATT
TTGCTAATGC TTACATGATT GAGGatgatg gttcttgctt tcttggtttc ctatactggt
gcatgcccct cttctagcta accccggaca atagaaatcc tcgattagat gatgaaaacc
attcaacatc tatgtagcaa ctgatgacaa cagcgtttga ttgtttcaca a
```

**FIG. 8 (H)**

HTA9-G

ttagggacga	atttgtgatt	tatgattatt	tgactttaga	ttgggcttgg	gcttttttcg
cagggtgggg	tataagggtg	aaatcgatc	ttgacagacc	gacttgtctc	tctctatctg
gggaaaacgt	cttttcacat	caacaaagaa	ggaaaaaccg	cagagaaacc	atctgatact
taagctaaac	tgagcgtaca	aaaagcctct	atatgtctta	gttcatgatt	tgctatgttt
tgtttccaga	ctgaatgatt	atacagagaa	aacaaacaaa	gatctccctc	tcttcttttg
aatcaaaaca	tgggtgttaa	aatttaatat	ttttctttca	agtgtctttt	tcaatattga
actaaattta	gggacgaatt	tgtgatttat	gattatttga	cttttagattg	ggcttgggct
tttttcgcag	gttgggggtat	aagggtaaaa	tcgtcatttg	acagaccgac	ttgtctctct
ctatctgggg	aaaacgtctA	TCGGGAGACT	CCTCTTCGAG	CTCATCTTCT	TCTCTCTCTT
TTTATCTTTG	GTGTGCGAT	CTCCTTTCTC	TTTCAATCTC	CAAGGATTTT	ACTGTGAGAT
ATTTGGCGGG	AAAAATGTCG	GGAAAGGTGC	TAAAGGTTTG	ATTATGGGGA	AACCCAGCGG
TAGCGACAAG	GATAAGGACA	AGAAGAAGCC	TATCACTCGT	TCTTCTCGAG	CTGGTCTCCA
Ggtagattat	aatctccctc	acactctaag	tcttccgtgt	ctgtttcttt	gggaatcgaa
atggtcttat	acacctgaac	gattagtaga	tcgcgtttaa	gtggtagatc	gatgagattc
tgagctagat	ttggtaattt	cagctgagaa	ttagagacat	tgggatgcga	gatttggttt
tctattgtgt	tatctgctgg	agaattgttt	cattaagctt	ttatgggtga	tattgaaccc
gatctttgat	ttcacggagt	cttggtgtta	cagctacctt	gtgaattgaa	ttcggagttt
ttttttaga	gatttattgt	catatatgaa	atgtttctgg	gagcaattga	gatttgagta
ttcatttagg	ttccattgtt	gtggctaatt	gaatttacat	tgtgtgcagT	TCCCAGTTGG
TAGGGTGCAT	CGTCTGTTAA	AGACAAGGTC	CACTGCTCAT	GGAAGGGTTG	GAGCAACTGC
AGCTGTTTAC	ACAGCAGCAA	TATTGGAGTA	TCTGACTGCA	GAAGTTTTGG	AGTTGGCTGG
TAACGCCAGC	AAGGACTTGA	AGGTGAAACG	TATCTCGCCG	AGGCATTTGC	AGCTTGCGAT
TCGTGGAGAT	GAGGAGCTCG	ATACTCTCAT	CAAAGGAACT	ATAGCTGGTG	GTGGAGTCAT
CCCTCATATC	CACAAGAGTC	TCATCAACAA	ATCCGCCAAG	GAATAGGACT	TTTTTAGTTA
CCCGCTTTGT	TCTGTGTTGC	TTTTCTGTTT	TCTAAATGTT	TTTAAGAGTT	GTTGTTTGAT
AAGATGCTAG	AGAAGCTCTT	TTTAGGATCG	TTTGCTATTG	TTCGTTCGAT	CAGCGTACTT
TGTGTTAGAG	ACGCCAGTCG	ATTTATCTAT	CTTTAAAAAT	GTATTCGAAT	GATTATCCAA
AAACCATTTT	TGActaccta	ccttgctggg	ttgttcgctg	gagaagcttg	aaagcaaatt
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aaatcacagg	tttgtgttta	agaaaattag	gctgataata	ttcacttggc	ctagttgacg
tcgatgtgat	tctgaagcaa	agttctttgt	agcaaactctg	gtgggagttt	taatcccttt
aagaatacac	tgatgcctga	ttt			

FIG. 8 (I)

HTA10-G

attcgaatta	tgaaaatcaa	aaaggaatga	agcgggaaca	aaaccttggg	gatttagttt
gaatcgtgat	gaagaaggaa	gacagagct	tgaggagat	tcgaaatttc	ctcgcttcat
aacaaaatct	gagaaataga	tttgaaaaac	agacaacact	aggttacaaa	aactgttact
cgatgaataa	aaaaagagga	ctttttcaaa	tcttcacaca	caaatttcac	aaagaacccg
gattcaattt	ttgaaaattg	ggctctttgg	taaaatgtaa	aacgtttggg	ccgaaaaaag
aagaaaaaaa	caaaactgta	aagaggcaaa	gaggatattt	tggttaattca	ctctgacgcg
gacctgaat	ctcgaattat	tcaccgttga	ttataacatt	atctaacggt	gataaacagc
gatccgcgta	gtttcttctt	attggttaag	acgaatctaa	aacagtatat	aaactctgga
gaagatggag	agagtccata	ACAACAAATT	CGATTCTTAT	AACTGTTTCC	CTCTCATCTT
TACACAAAAG	TATTCTAATC	GATTTCAATG	GCGGGTCGTG	GTAAAACACT	CGGATCTGGG
TCTGCGAAGA	AGGCAACAAC	AAGAAGCAGC	AAAGCCGGTC	TCCAATTCCC	TGTGGGTCGT
ATCGCTCGTT	TCTTGAAGAA	AGGCAAATAC	GCCGAACGTG	TTGGTGCCGG	AGCTCCGGTT
TACTTAGCCG	CCGTTCCTCGA	ATACCTCGCC	GCTGAGgtaa	ttcctcttcc	ctattcttca
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GATTGTTCCA	AGGCATATTC	AATTGGCGGT	GAGGAACGAT	GAAGAATTGA	GCAAATTGCT
TGGAGATGTG	ACTATTGCTA	ATGGAGGTGT	GATGCCTAAC	ATTCACAATC	TTCTTCTTCC
TAAGAAGACC	GGTGCTTCCA	AGCCATCTGC	TGAAGACGAT	TGATTAATCA	ACCAAATCCA
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TGAAGAAAGA	ATCTATCTTC	TGTGTTTTTT	GAATTGAATT	GAATGTTTCA	ATGCTTTCAA
TTTCTTATGG	AATCAAGATT	TTAACTTTTC	Taggttttcg	agttatgatg	atgaaattct
tagtcttata	aatcactaaa	gacttgggat	ttttgattgg	ttgacataaa	gaatggactt
ttgagttaaa	tttgggaaag	ctactgggaa	tgacatcatg	agaggtgtat	aattgagcaa
ctatgacata	tattaaaaga	gatctgaagg	attgatgatg	attggtgggc	caataatg

**FIG. 8 (J)**

HTA11-G

tcttaacaat	caaaccaaag	catataatat	tctcttacca	tttagtttta	ccacaagcat
agtgcctaca	acctttctca	tgaaaaatgg	atctttctgt	tacaaaagaa	aaaaaaaaagc
tgatttttaa	cgtttctaag	aaatagaggg	cttaatggca	aatggtgaa	acattttaag
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tttaaaaact	cccaccaaac	tttttaattt	taaaactcta	atccccattct	attcaaccag
atttcgtttc	tttcgtcctt	tttttCCTTT	TGCATTCTCT	CGTCGTCGTC	TCAAGgtact
ttactttctct	ttttctctct	tccaatattc	gagatctgtt	tctgtctttc	ttggatcgat
tctcgattct	gtttctcgat	ttagtcttct	ttcgaataga	tctggtagat	ttaagcatta
tactcttctt	tttctgattt	cgtttttggt	tgactgtgta	cggtttagATC	TAGAAGAAGG
AAACAACAAT	TTCAAGAGAC	ATGGCAGGCA	AAGGTGGAAA	AGGACTCGTA	GCTGCGAAGA
CGATGGCTGC	TAACAAGGAC	AAAGACAAGG	ACAAGAAGAA	ACCCATCTCT	CGCTCTGCTC
GTGCTGGTAT	TCAGgtcatc	tcttaaacc	taatttcgac	gacctgttt	gactctgatt
ctttccta	tcatcagtac	catttacatt	tttaggaata	gatttgtttt	tttggttcta
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tgtgcatagc	catacaagta	gagagattgg	tcacaccgat	actgtttttt	tttttcagTT
TCCAGTTGGA	CGAATTCACA	GGCAACTGAA	GACCCGAGTC	TCGGCACATG	GCAGAGTTGG
TGCCACTGCA	GCCGTCTACA	CAGCTTCAAT	CCTGGAGTAT	CTGACAGCAG	AGGTTCTTGA
GTTGGCTGGG	AATGCGAGCA	AGGATCTCAA	AGTGAAGAGG	ATAACGCCAA	GGCATCTGCA
GTTGGCGATT	AGAGGAGATG	AGGAGCTGGA	CACACTCATC	AAGGGAACGA	TTGCTGGAGG
TGGTGTGATC	CCTCACATCC	ACAAGTCTCT	CATCAACAAA	ACCACCAAGG	AGTGATGTGT
AGCTTTTTTAT	GGTGTTTGTA	TTTCTGTAGT	CTTGGA	TTTTCCTTTA	TCCTTTTCTT
AGTTC'TTTGA	CTAGTGTTGA	CCTCTTCTGG	ACATCCTCAG	GTGTACATTA	GTTAATTTGA
ACTCTTTAGG	TTCCTTgttc	aatcatatgt	tctctttcta	tgctattgtg	atttgcttat
tatgttttca	agtgaaccgt	tttctgtttt	aaacaactga	ggaaatcatt	tactcgcag
ctctctggta	accggactta	caagtatctt	ttagatatag	aacttgttat	caaacatcat
cagtatttta	tcaagtcaca	tattccaaat	caggcgcaaa	tagcccaatc	acaagtcaaa
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FIG. 8 (K)

HTA12-G

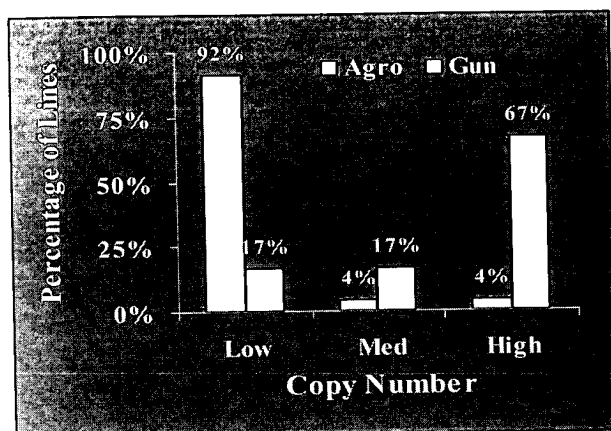
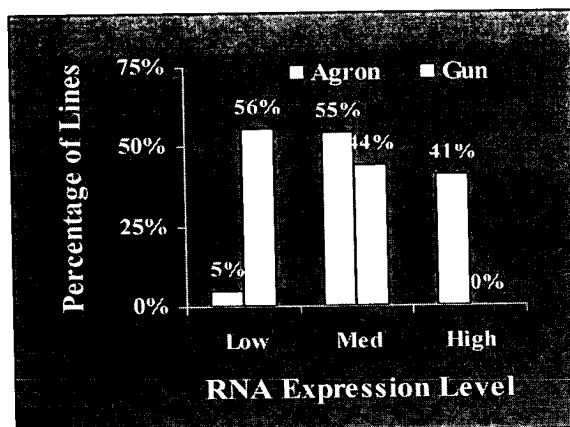
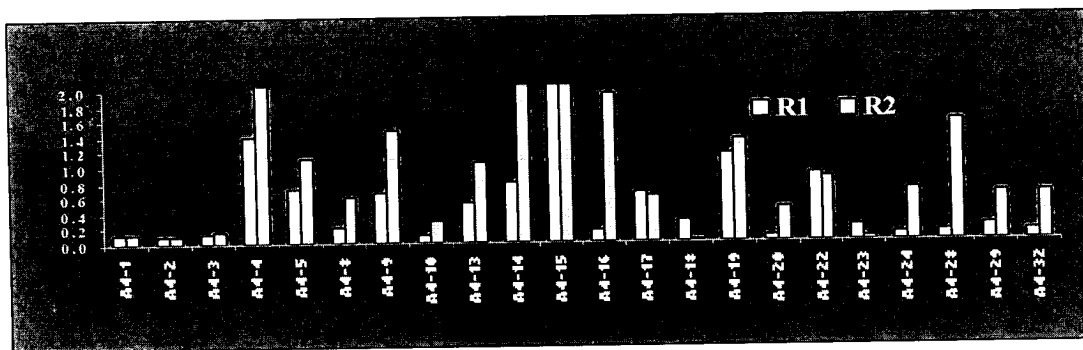
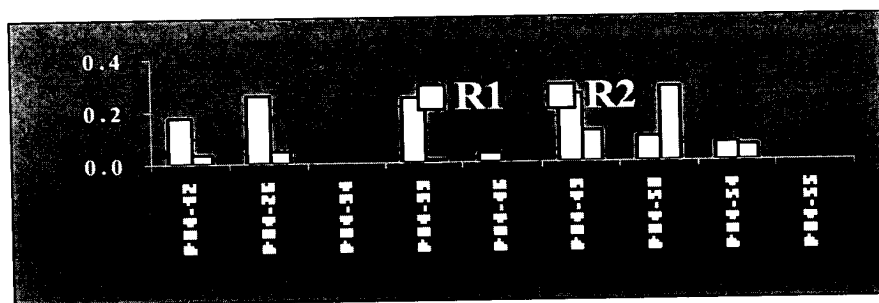
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tgtcggagta aatcaagccA TGGATCCGG AACCAAAGTG AAGAAAGGAG CCGCTGGAAG
AAGAAGTGGT GGAGGTCCCTA AGAAGAAACC GGTTTCCCGT TCGGTAAAT CCGGTCTACA
GTTTCCCTGTC GGTAGGATCG GTCGGTATCT TAAGAAAGGT CGTTATTCGA AGCGTGTCTCG
AACC GGAGCT CCGGTCTATC TCGCCGCCGT CCTCGAGTAT CTTGCTGCTG AGGtaataaa
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TATACCACGC CATGTTCTAT TAGCGGTGAG GAACGACGAG GAGCTAGGGA CACTACTCAA
AGGCGTAACC ATTGCACACG GCGGTGTTTT ACCAAACATA AACCCAATAC TCCTCCCAAA
GAAGTCTGAG AAAGCAGCTT CAACTACAAA AACACCCAAA TCACCATCAA AGGCAACCAA
ATCCCCTAAG AAATCTTAGT ACTTCTTTCT TCATTCTCT GTATAACCTA CTGTTTCTAT
CTCTCTGTAC GTTTCTCTGT AAAGACAGAA CAGAATATCT CTTTGTTGTT GTGAGAAAGC
TTAGTTTCTC TGATCGTCGT TGTGAAATAA AAAATGCAAC GTTTCATATa gattttgcac
aatcaaaaag tattcatata aacaatgtat tattattcga ctatcatcat atg
```

**FIG. 8 (L)**

HTA13-G

ttaatacgac	atgctaaaaa	ttgattaatc	atgtttagaa	aaatatatac	tatgataaac
ctgaaattgt	gtcacacaat	tttgatgaat	gtatatacca	catttccata	ttatacgttt
taaaagtaag	attttcataa	attttaaaat	tattcataac	attcactaaa	attagatgtg
tataattaac	aaactaaaaa	tatcattaat	ctactatttt	agtagttatt	ttgcgaaaat
atgtttgagt	tacaaaatat	tttactattt	taaatcatgt	cgattatacc	cactgaaggg
tatttccgtc	aatcccaatt	ctaacaatga	attcaggagt	ataaaaacgt	aaattcaagc
gtgccaatta	taaaccgtcg	atcataatct	aatccaacgg	cagtaacatc	gatccgcgtg
attgtttatt	attggataag	aatcactcaa	ccgtctctac	acagtatata	taataaccaa
agagcgctct	cttacgctta	TCTTAATTTT	CCTCGCATTG	AGAATTTTCA	ACTTTTCTA
TCTCTCTTCC	CAAATCACAA	ATGGCGGGTC	GCGGCAAAAC	TCTCGGATCT	GGCGTTGCTA
AGAAATCAAC	ATCGAGAAGC	AGCAAAGCCG	GTCTCCAATT	CCCCGTTGGT	CGTATCGCTC
GTTTTCTAAA	GAACGGCAAG	TACGCAACAC	GTGTTGGTGC	CGGAGCTCCG	GTTTACTTAG
CCGCCGTTCT	CGAATACCTC	GCCGCTGAGg	taattatccc	cttctctccc	tatatctctt
tactctttcg	atcttcaatt	tcgtaaaaacc	ctaattttcta	aattggatct	gttgtgttgt
agGTATTGGA	ATTGGCTGGA	AACGCAGCTA	GGGATAACAA	GAAGACTAGG	ATTGTGCCAC
GTCACATTCA	GCTCGCGGTG	AGAAACGATG	AGGAGCTGAG	TAAACTGCTT	GGAGATGTGA
CGATTGCTAA	TGGAGGTGTG	ATGCCTAACA	TTCACAGTCT	TCTTCTTCCC	AAGAAAGCTG
GTGCTTCAAA	ACCTTCCGCT	GATGAAGATT	AGATTAGGGA	TTTGTGTTGT	GGTTGTTTAG
CTAATTAATG	TGTAGCTTAG	TCTTTCATTA	GATTAGATCT	GAATTAGTTT	TCATTAATGG
TGTTGTGTAG	TCTCTCTTTT	GCTTCAAAAA	CAAGTATTAA	AATCttatta	ttttgaattg
aatccacaat	caatacacat	tgaagtccta	acaaaactact	tcttcccagt	gatatttgaa
accaaatac	taagaaaactt	agctgatttg	gtaataggag	aattcatagc	catcaagtta
tacagaacaa	gctcaacttc	ttcgattgat	ggtcgagaat	tgaattgtga	aacaactttc
aaagtaccat	taccttcttc	ttcttcaacg	agaacattcc	atctttctcc	actcacia

**FIG. 8 (M)**

**A****B****C****D****FIG. 9**

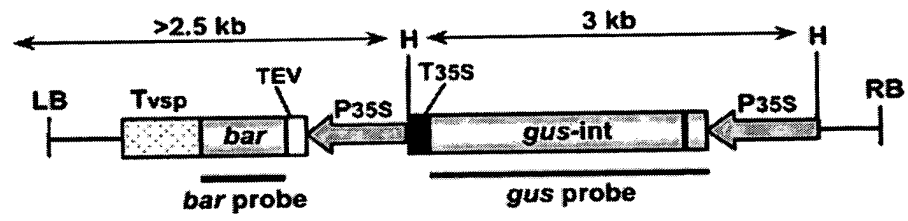


FIG. 10